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United States Patent [19][11] **Patent Number:** 5,851,988**Sportsman et al.**[45] **Date of Patent:** Dec. 22, 1998**[54] NONPEPTIDE INSULIN RECEPTOR AGONISTS**

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514/483; 514/562; 514/563; 514/596; 514/597;
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598, 617, 618, 619, 708, 762, 866, 4; 562/427

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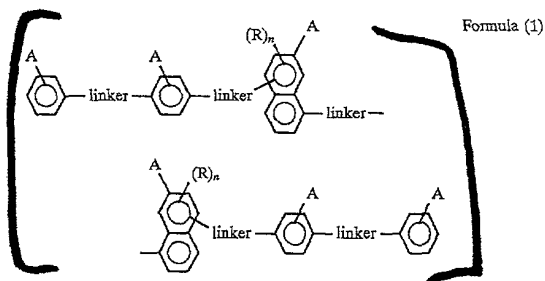
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[57] ABSTRACT

Modulation of the activity of the insulin receptor, enhancement of glucose uptake by cells, and other effects significant in the control and management of diabetes are accomplished using compounds of the formula



wherein

each A is independently a proton-accepting substituent;

each R is independently a noninterfering substituent;

n is 0, 1, or 2; and

each linker is independently an isostere of —NHCONH— or of —N=N— or of —NHCO—.

Compounds in the genus of Formula (1) can also be used for structure activity studies to identify features responsible for the relevant activities.

25 Claims, 9 Drawing Sheets

